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SAFETY HEALTH AND ENVIRONMENTAL AFFAIRS

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SAFETY HEALTH AND ENVIRONMENTAL AFFAIRS

# MATERIAL SAFETY DATA SHEET

**PRODUCT** 

NALCO 2811 OXYGEN SCAVENGER

Emergency Telephone Number Medical (708) 920-1510 (24 hours)

## SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: NALCO 2811 OXYGEN SCAVENGER

DESCRIPTION: A blend of sodium metabisulfite, sodium sulfite and cobalt sulfate

NFPA 704M/HMIS RATING: 1/1 HEALTH 0/0 FLAMMABILITY 0/0 REACTIVITY 0 OTHER

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

### SECTION 2 HAZARDOUS INGREDIENTS

Our hazard evaluation has identified the following chemical ingredient(s) as hazardous under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult Section 14 for the nature of the hazard(s).

INGREDIENT(S)

CAS #

APPROX.%

Sodium metabisulfite

7681-57-4

1-5

# SECTION 3 PRECAUTIONARY LABEL INFORMATION

CAUTION: May cause irritation to skin and eyes. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid breathing dust. Do not take internally.

Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

## SECTION 4 FIRST AID INFORMATION

EYES:

Flush with water for 15 minutes. Call a physician.

SKIN:

Flush with water for 15 minutes.

INGESTION:

Induce vomiting. Give water. Call a physician.

INHALATION:

Remove to fresh air. Treat symptoms. Call a physician.

NOTE TO PHYSICIAN: Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

#### SECTION 5 HEALTH EFFECTS INFORMATION

PRIMARY ROUTE(S) OF EXPOSURE: Eye, Skin, Inhalation

EYE CONTACT:

Can cause mild, short-lasting irritation.

SKIN CONTACT:

May cause irritation with prolonged contact.

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ODOR:

Sweet

ASIM E-70

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### SECTION 5 HEALTH EFFECTS INFORMATION

( CONTINUED )

INGESTION:

Can be harmful.

INHALATION:

May cause irritation to the respiratory tract and lungs.

SYMPTOMS OF EXPOSURE: Sodium sulfite. Ingestion is believed to cause

an asthmatic, allergic reaction in susceptible individuals.

AGGRAVATION OF EXISTING CONDITIONS: A review of available data does

not identify any worsening of existing conditions.

#### SECTION 6 TOXICOLOGY INFORMATION

ACUTE TOXICITY STUDIES: Acute toxicity studies have not been conducted on this product, but toxicity studies of the ingredient(s) in Section 2 have been reviewed. The results are shown below.

ACUTE ORAL TOXICITY (ALBINO RATS): Sodium bisulfite LD50 = 2,000 mg/kg

OTHER TOXICITY RESULTS: Sodium bisulfite. Intraperitoneal LD50 (rat) = 650 mg/kg

#### SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Off-white to beige FORM: Powder

100-120 lbs/ft3

BULK DENSITY:

100-150 Tre/103

SOLUBILITY IN WATER: pH (AT 10%) = Completely

far (ur ros) -

7.6-8.2

FLASH POINT:

None

NOTE: These physical properties are typical values for this product.

### SECTION 8 FIRE AND EXPLOSION INFORMATION

FLASH POINT: None

EXTINGUISHING MEDIA: Not applicable

UNUSUAL FIRE AND EXPLOSION HAZARD: May evolve SOx under fire conditions.

#### SECTION 9 REACTIVITY INFORMATION

INCOMPATIBILITY: Avoid contact with strong oxidizers (eg. chlorine, peroxides, chromates, nitric acid, perchlorates, concentrated oxygen, permanganates) which can generate heat, fires, explosions and the release of toxic fumes.

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#### SECTION 9 REACTIVITY INFORMATION

( CONTINUED )

Avoid contact with strong acids (eg. sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic) which can generate heat, splattering or boiling and the release of toxic fumes.

THERMAL DECOMPOSITION PRODUCTS: In the event of combustion SOx may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

## SECTION 10 PERSONAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION: Respiratory protection not normally needed. If significant dusting occurs, wear a NIOSH approved or equivalent dust respirator.

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure-demand, self-contained breathing apparatus is recommended.

VENTILATION: If significant dusting occurs, local exhaust ventilation is recommended.

PROTECTIVE EQUIPMENT: No special precautions. Avoid eye and skin contact, and inhalation of dust.

The availability of an eye wash fountain and safety shower is recommended.

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

### SECTION 11 SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER (708-920-1510)

#### SPILL CONTROL AND RECOVERY:

Solid spills: Sweep or vacuum up and reclaim into recovery or salvage drums for disposal. Wear the protective equipment specified in Section 10. Refer to CERCLA in Section 14.

DISPOSAL: If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

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#### SECTION 11 SPILL AND DISPOSAL INFORMATION

( CONTINUED )

As a non-hazardous solid waste, it can be disposed of in an industrial waste landfill in accordance with local, state, and federal regulations.

#### SECTION 12 ENVIRONMENTAL INFORMATION

#### AQUATIC DATA:

96 hour static acute LC50 to Bluegill Sunfish = Greater than 10 ppm, less than 100 ppm (1% solution)

96 hour static acute LC50 to Rainbow Trout = Greater than 100 ppm (1% solution)

If released into the environment, see CERCLA in Section 14.

### SECTION 13 TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME/HAZARD CODE - PRODUCT IS NOT REGULATED DURING TRANSPORTATION

#### SECTION 14 REGULATORY INFORMATION

The following regulations apply to this product.

#### FEDERAL REGULATIONS:

OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200: Based on our hazard evaluation, the following ingredient in this product is hazardous and the reason is shown below.

Sodium metabisulfite = TWA 5 mg/m3 ACGIH/TLV

Sodium metabisulfite = TWA 5 mg/m3 OSHA/PEL

CERCLA, 40 CFR 117, 302:

Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

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#### SECTION 14 REGULATORY INFORMATION

( CONTINUED )

SECTIONS 311 and 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370): Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

XX Immediate (acute) health hazard

- Delayed (chronic) health hazard
- -- Fire hazard
- -- Sudden release of pressure hazard
- -- Reactive hazard

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372): This product does not contain ingredients on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

FOOD AND DRUG ADMINISTRATION (FDA):

Federal Food, Drug and Cosmetic Act:

When use situations necessitate compliance with FDA regulations, this product is acceptable under 21 CFR 173.310 Boiler Water Additive.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D: Consult Section 11 for RCRA classification.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116 (formerly Sec. 311):
None of the ingredients are specifically listed.

CLEAN AIR ACT, Sec. 111 (40 CFR 60), Sec. 112 (40 CFR 61, 1990 Amendments): This product does not contain ingredients covered by the Clean Air Act.

#### STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

This product does not contain any chemicals which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS:

This product contains the following substance(s) identified on the Michigan Critical Materials Register:

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### SECTION 14 REGULATORY INFORMATION

( CONTINUED )

Cobalt sulfate

STATE RIGHT TO KNOW LAWS:

The following ingredients shown are disclosed for compliance with State Right To Know Laws:

Cobalt sulfate

10124-43-3

Sodium metabisulfite

7681-57-4

Sodium sulfite

7757-83-7

#### THTERNATIONAL REGULATIONS:

This is a WHMIS controlled product under The House of Commons of Canada Bill C-70. The product contains the following substance(s), from the Ingredient Disclosure List or has been evaluated based on its toxicological properties, to contain the following hazardous ingredient(s):

Chemical Name

CAS #

% Concentration Range

Sodium metabisulfite

7681-57-4

1-5

## SECTION 15 ADDITIONAL INFORMATION

None

# SECTION 16 USER'S RESPONSIBILITY

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

## SECTION 17 BIBLIOGRAPHY

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